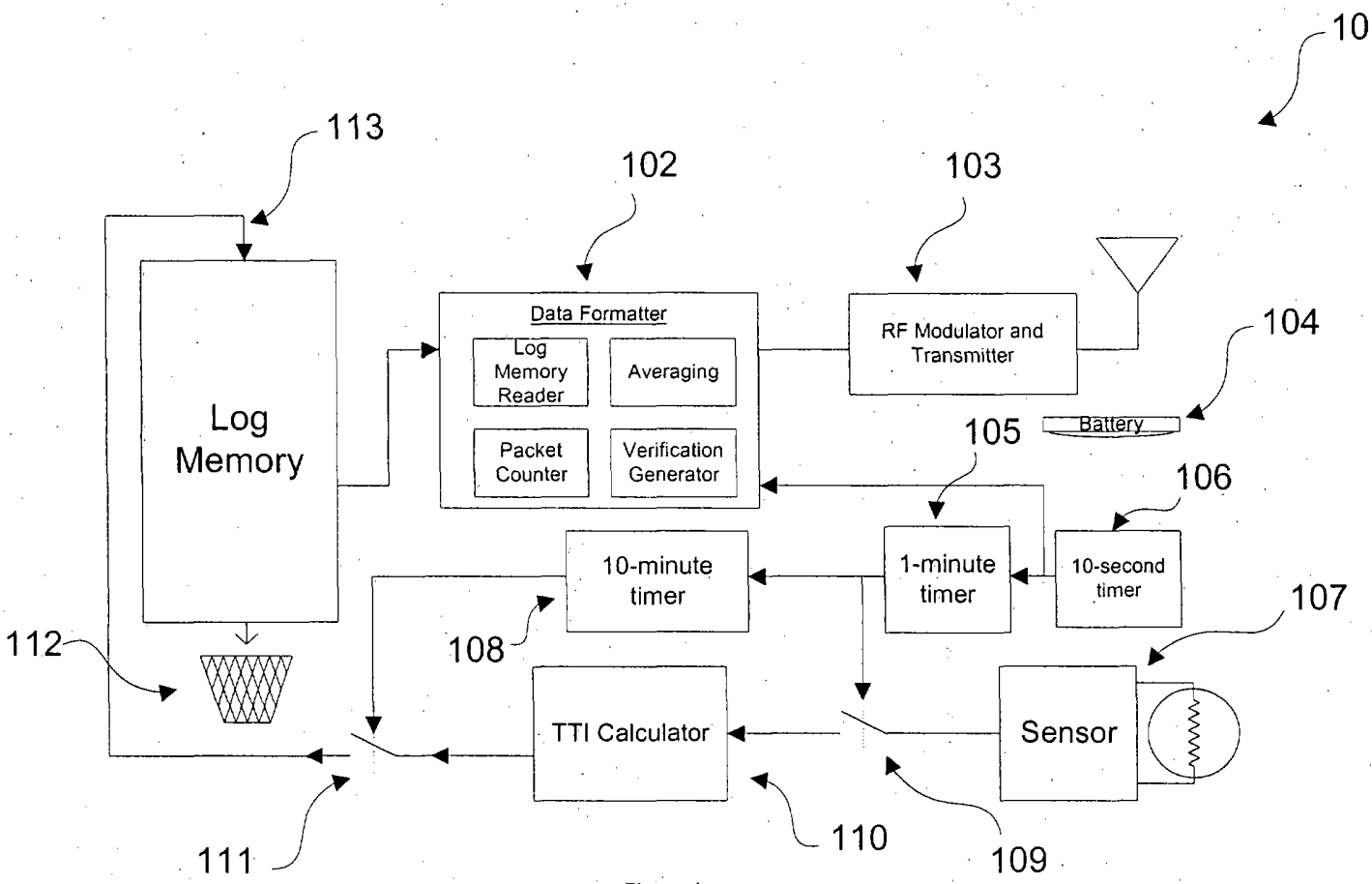

Figure 1

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248		DRAWN: A Stell CHECKED: PROJECT MGR: A Stell	
TITLE:	FRESHSYNC LOGGER BLOCK DIAGRAM		
SIZE: B	DOC#:		
DATE: 04/10/2002	SHEET 1	OF 1	

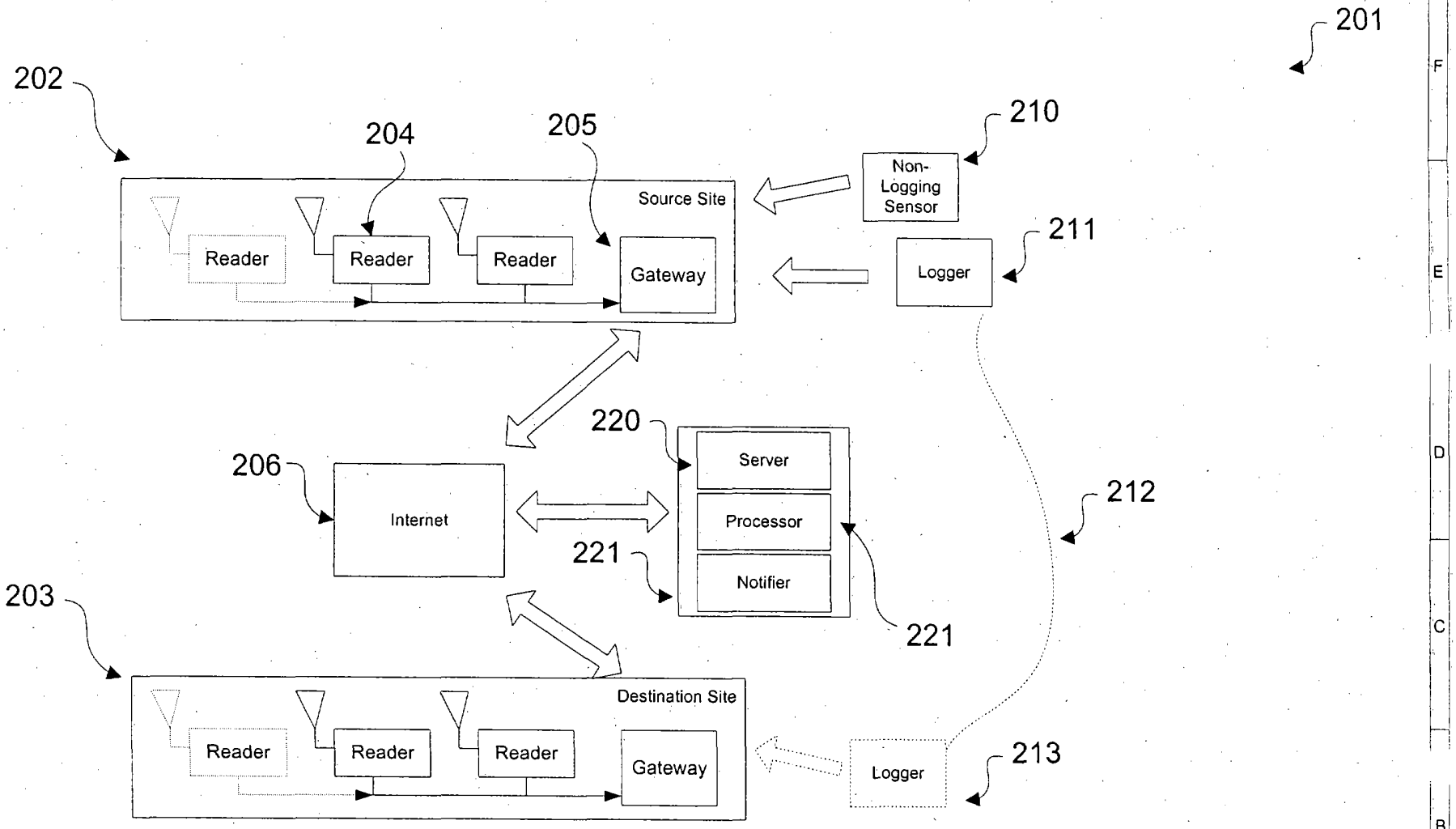

Figure 2

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248	DRAWN: A Stell CHECKED: PROJECT MGR: A Stell
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING	
SIZE: B	DOC#:
DATE: 04/03/2002	SHEET 1 OF 1

sequence char	message type	Reader ID	time stamp	Message size	data	signal strength	
^	V	3F27	38A3D5	G	3516	56	'V' indicates verification packet
_	T	3F27	38A5CF	G	04AA	57	'T' indicates data packet
`	S	3F27	38A7C7	E	0217	56	2 bytes in ID indicates this is a standard (non-logging) sensor
a	S	3F27	38A9BA	E	010F	56	
b	V	3F27	3A76AF	G	093B	61	3rd byte in ID indicates logging sensor: {03} indicates 3rd ID byte. {8} indicates 16-hour sensor. {3} indicates data between 6 and 7 hours old.
c	T	3F27	3A78E2	G	1400	63	
d	S	3F27	3A7B13	E	**0383**	61	
e	S	3F27	3A7D3F	E	0221	61	
f	S	3F27	3A7F6B	E	0132	62	
g	!	3F27	3C0000	E	0000	62	'!' indicates heartbeat packet
h	V	3F27	3C97F4	G	0943	63	{0384} indicates logging sensor between 8 and 9 hours old. Sensor ID=H2132 -> D8498. 9-hour temp = H1400 -> D5120/ 64-30 = 50 degrees F. 8-hour temp = 50 degrees + 0 = 50F.
i	T	3F27	3C9A26	G	**1400**	62	
j	S	3F27	3C9C56	E	0384	62	
k	S	3F27	3C9E82	E	0221	61	
l	S	3F27	3CA0AD	E	0132	62	

301

302

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FIGURE 3

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248	DRAWN: A Stell CHECKED: PROJECT MGR: A Stell	
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING		
SIZE: B	DOC#:	
DATE: 04/03/2002	SHEET 1 OF 1	

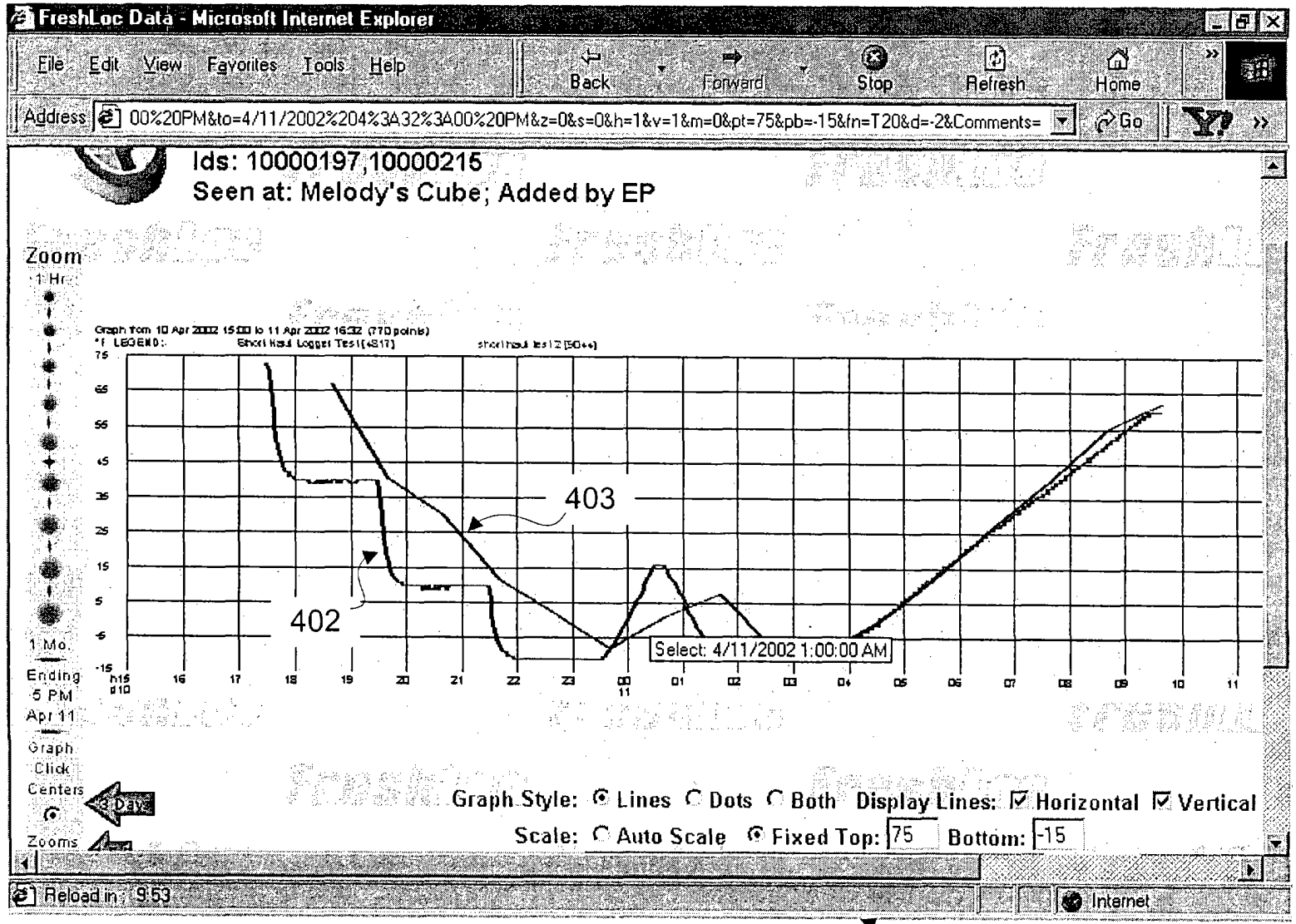


Figure 4

401

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248		DRAWN: A Stell CHECKED: PROJECT MGR: A Stell	
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING			
SIZE: B	DOC#:		
DATE: 04/03/2002	SHEET 1	OF 1	

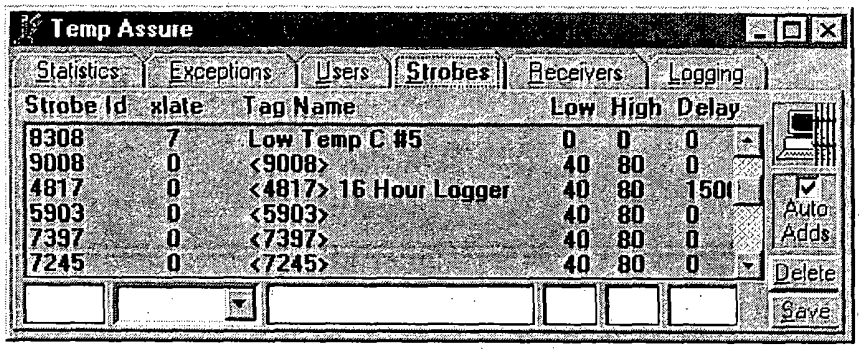


Figure 5

501

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248	DRAWN: A Stell CHECKED: PROJECT MGR: A Stell
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING	
SIZE: B DOC#:	
DATE: 04/03/2002 SHEET 1 OF 1	

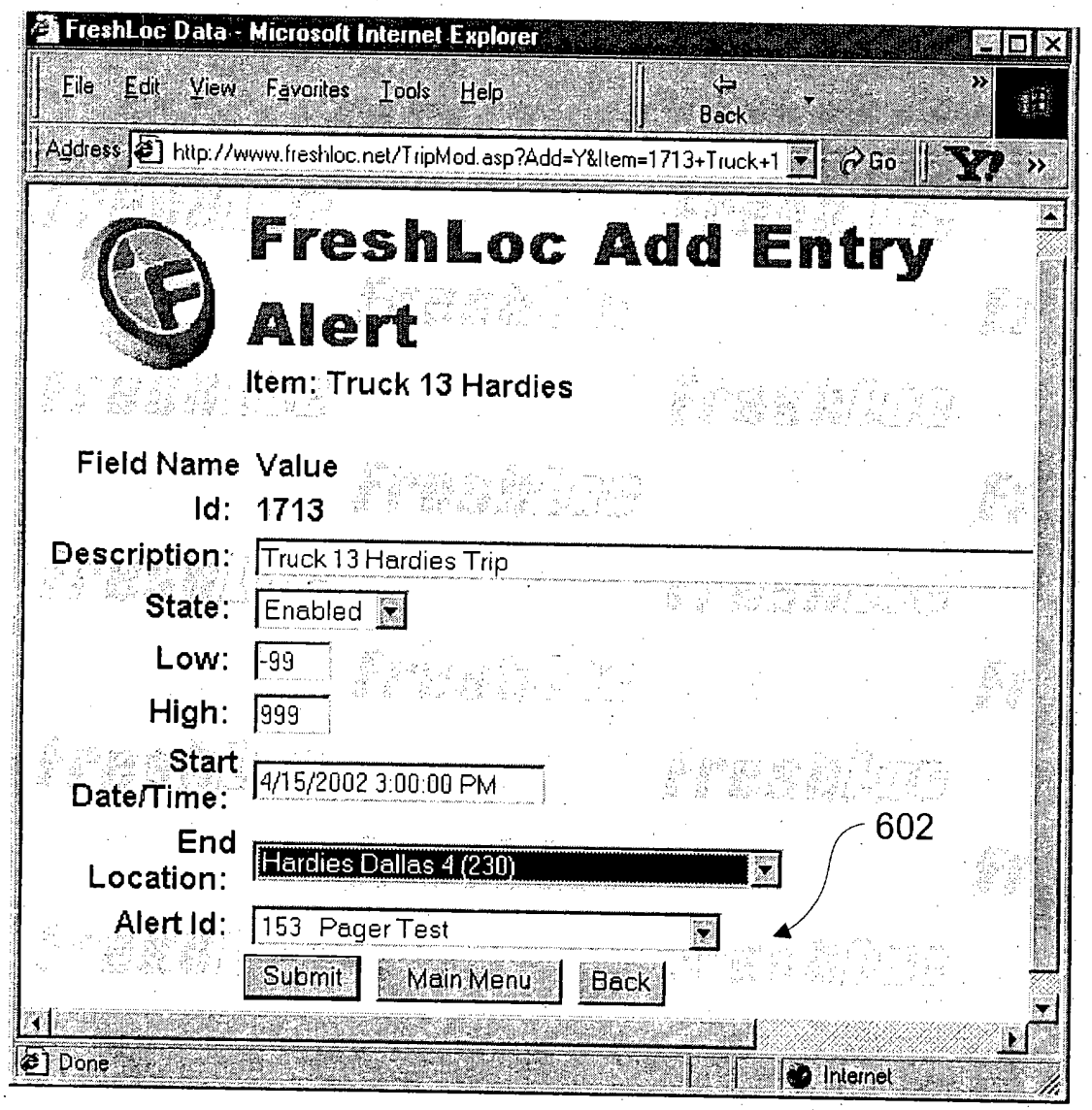
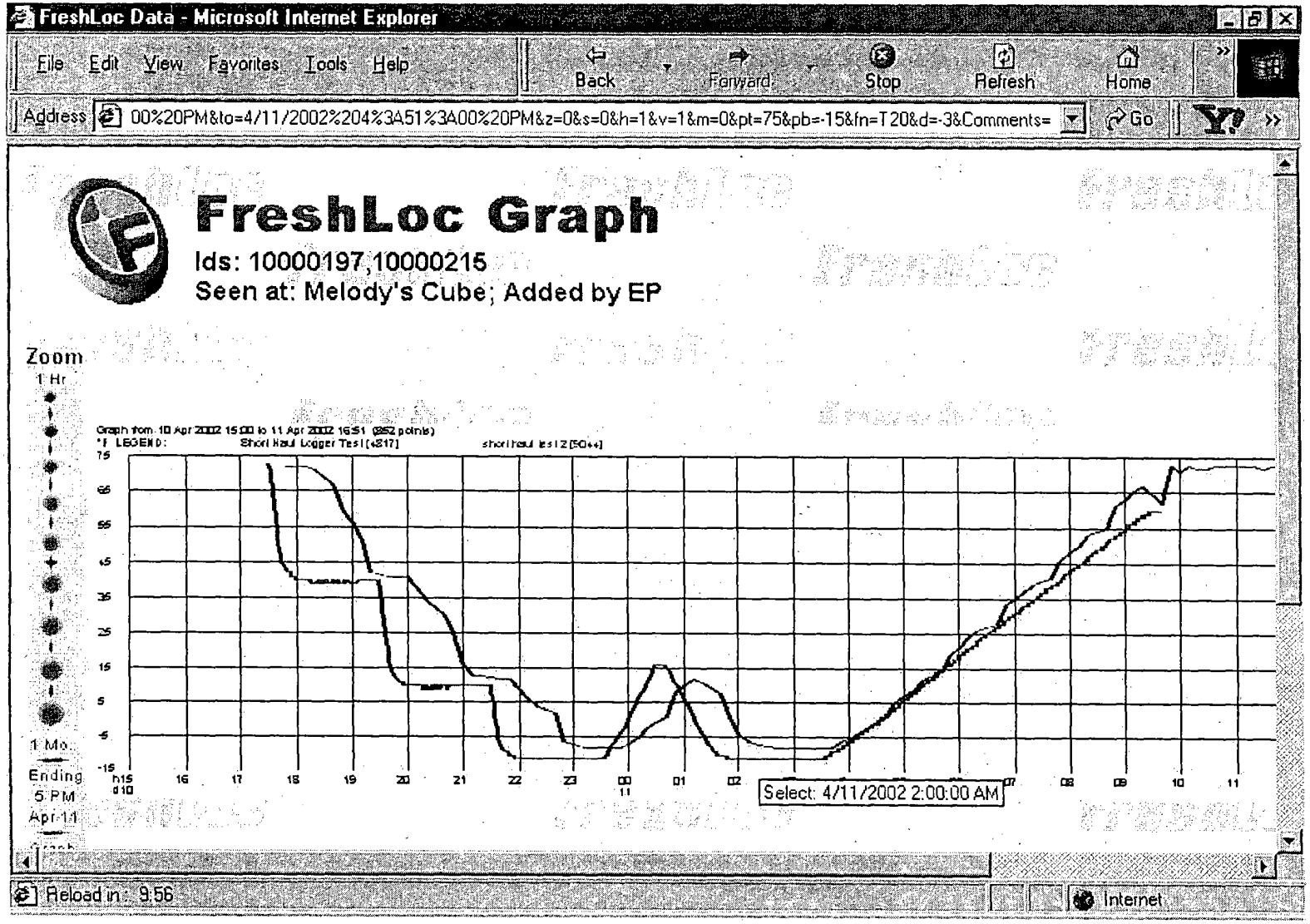


Figure 6

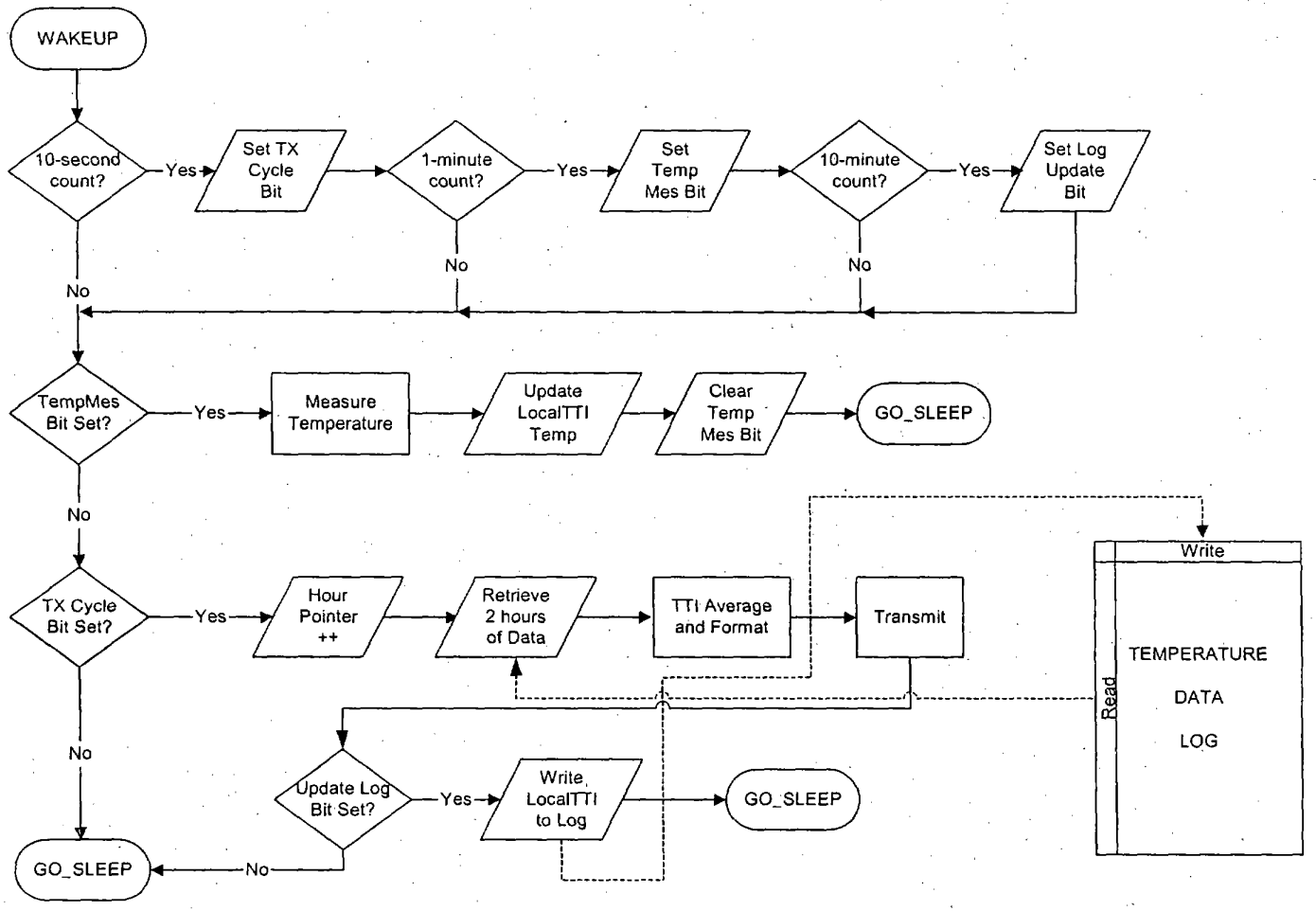
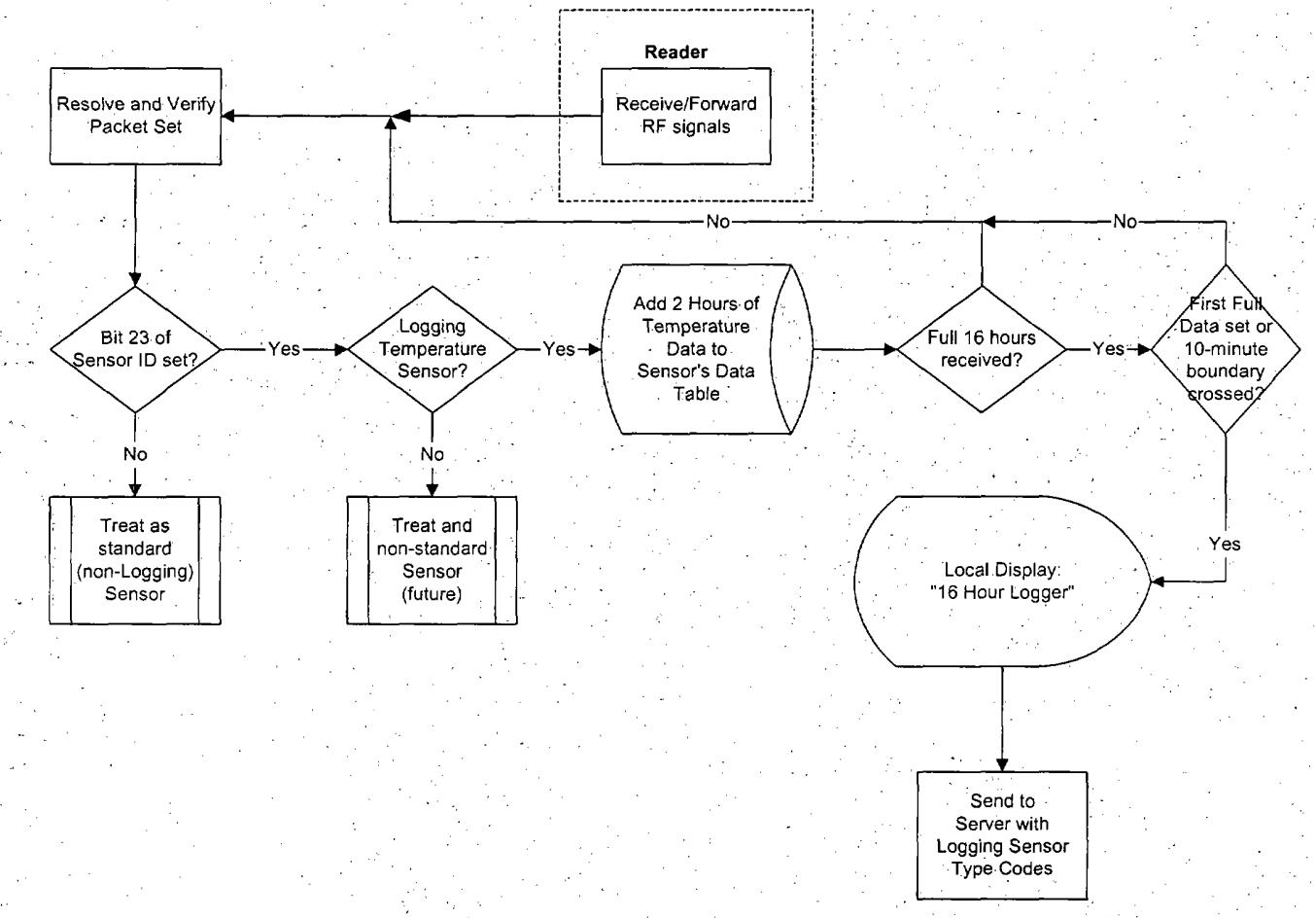
FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248	DRAWN: A Stell CHECKED: PROJECT MGR: A Stell	
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING		
SIZE: B	DOC#:	
DATE: 04/03/2002	SHEET 1	OF 1



After One Hour.

FRESHLOC 15443 KNOLL TRAIL DRIVE SUITE 100 DALLAS, TX 75248	DRAWN: A Stell CHECKED: PROJECT MGR: A Stell
TITLE: COMMERCIAL SENSOR MECHANICAL DRAWING	
SIZE: B DOC#:	
DATE: 04/03/2002	SHEET 1 OF 1

Sensor Flow Chart



Reader/Gateway Flow Chart